

Control of diesel engine exhaust system with particle filter

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Inventor: SALVAT OLIVIER; LE TALLEC PATRICE; PORTALIER JACQUES

Applicant: PEUGEOT (FR)

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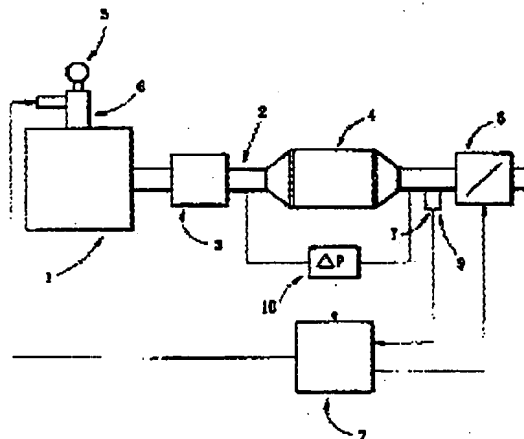
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Abstract of FR2774424

A management unit controls the fuel injectors in each cylinder, and also monitors the pressure drop across the filter and the temperature of the filtered gas. In cases when the exit temperature is considered too high, the management unit closes the exit valve reducing the gas flow and oxygen available for combustion in the filter. The fuel injectors (5) in each cylinder (1), supplied from e.g. a common rail (5), are controlled by the management unit (7), which also monitors (10) the pressure drop across the filter and (9) the temperature (T) of the filtered gases. The gases arrive at the filter via a turbocompressor (3) and exit through a valve (8), also controlled by the unit. If, during the filter's regenerative phase, or under certain engine conditions, the exit temperature exceeds a predetermined threshold, or its rate of rise is excessive in relation to the operating condition, a too violent soot combustion is indicated. To prevent damage to, or even destruction of, the filter, the management unit closes the exit valve, reducing the gas flow and the oxygen available for combustion in the filter.



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